

Appendix Test Data

Report No.:	18220WC30028901	Test Sample No.:	1-2-2
Start Test Date:	2023.02.24	Finish Test Date:	2023.03.09
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.4°C	Relative Humidity:	46%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2407.000	2417.040	≥0.5	PASS
		2437	10.040	2431.960	2442.000	≥0.5	PASS
		2462	10.080	2456.960	2467.040	≥0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	≥0.5	PASS
		2437	16.320	2428.840	2445.160	≥0.5	PASS
		2462	16.320	2453.840	2470.160	≥0.5	PASS
11N20SISO	Ant1	2412	17.680	2403.160	2420.840	≥0.5	PASS
		2437	16.920	2428.520	2445.440	≥0.5	PASS
		2462	17.280	2453.240	2470.520	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437





11G_Ant1_2462



11N20SISO_Ant1_2412





11N20SISO_Ant1_2437



11N20SISO_Ant1_2462





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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	15.174	2404.4118	2419.5858
		2437	15.165	2429.4239	2444.5889
		2462	15.150	2454.4385	2469.5885
11G	Ant1	2412	17.080	2403.4658	2420.5458
		2437	17.033	2428.4806	2445.5136
		2462	16.874	2453.5508	2470.4248
11N20SISO	Ant1	2412	18.074	2402.9997	2421.0737
		2437	17.890	2428.0798	2445.9698
		2462	17.915	2453.0750	2470.9900



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437

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11G_Ant1_2462



11N20SISO_Ant1_2412

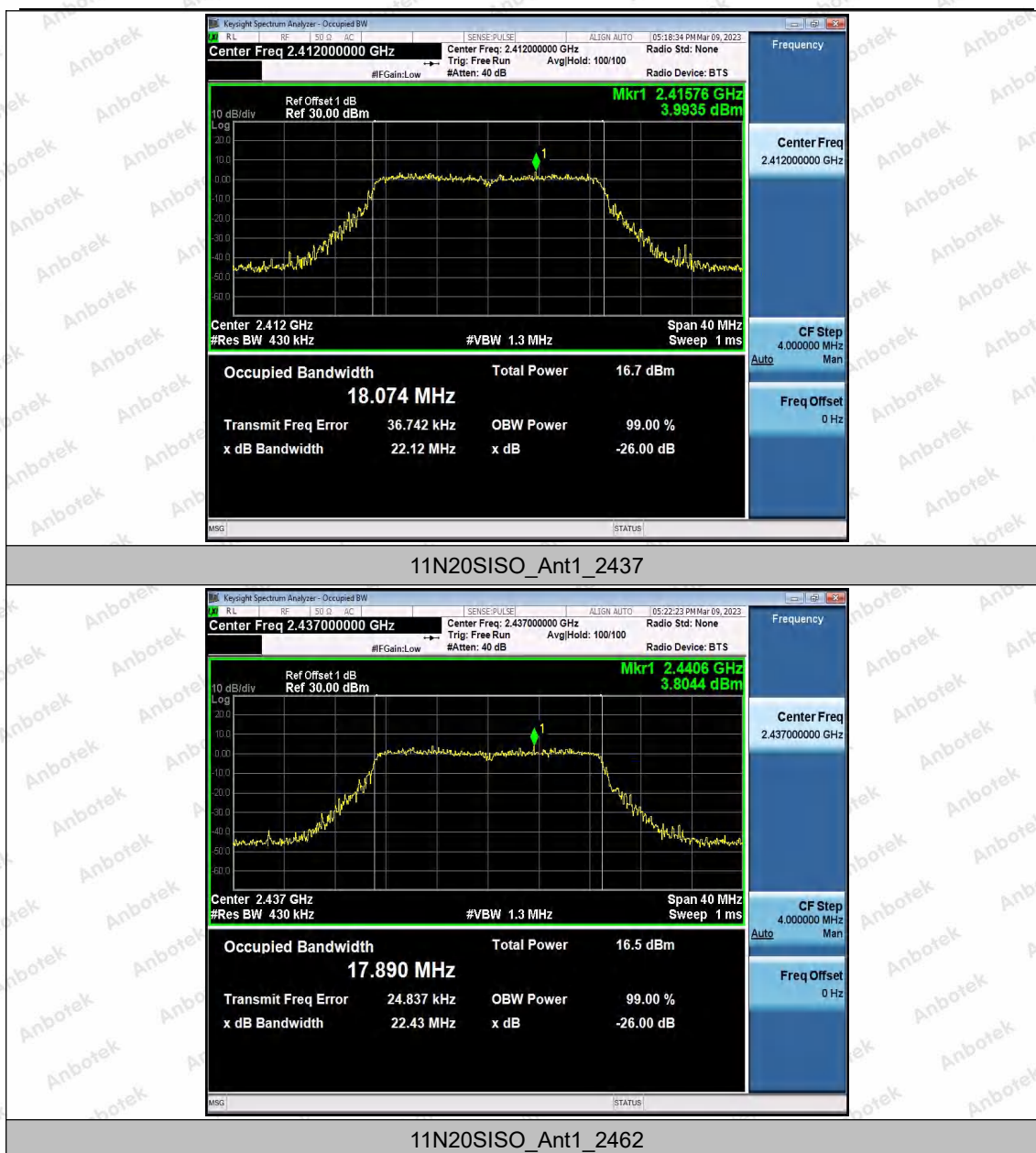
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	18.88	≤30.00
		2437	18.30	≤30.00
		2462	18.20	≤30.00
11G	Ant1	2412	17.80	≤30.00
		2437	17.66	≤30.00
		2462	17.71	≤30.00
11N20SISO	Ant1	2412	18.04	≤30.00
		2437	17.46	≤30.00
		2462	17.45	≤30.00



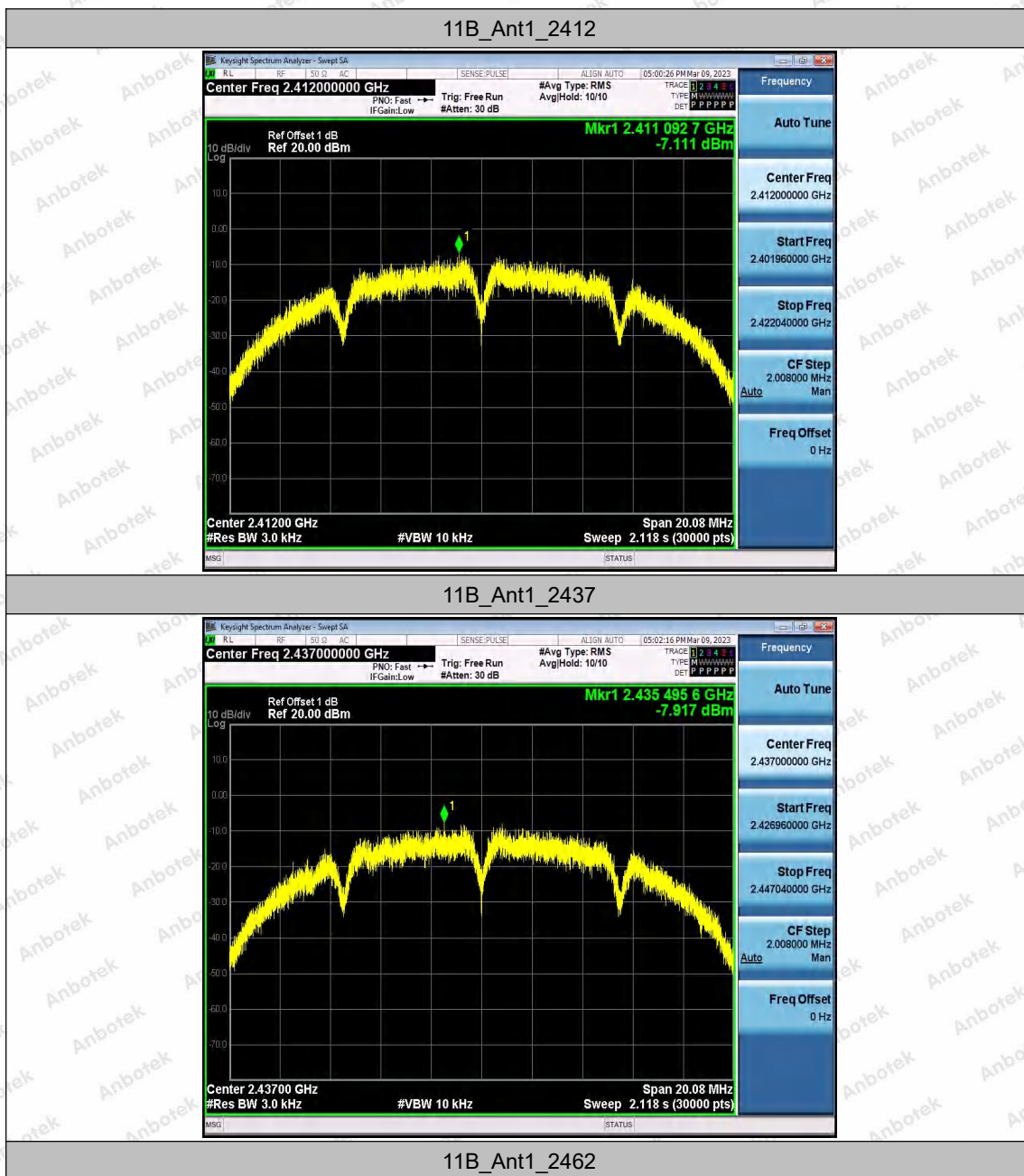
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.11	≤8.00	PASS
		2437	-7.92	≤8.00	PASS
		2462	-8.08	≤8.00	PASS
11G	Ant1	2412	-12.77	≤8.00	PASS
		2437	-13.35	≤8.00	PASS
		2462	-14.39	≤8.00	PASS
11N20SISO	Ant1	2412	-13.6	≤8.00	PASS
		2437	-14.32	≤8.00	PASS
		2462	-14.06	≤8.00	PASS



Test Graphs



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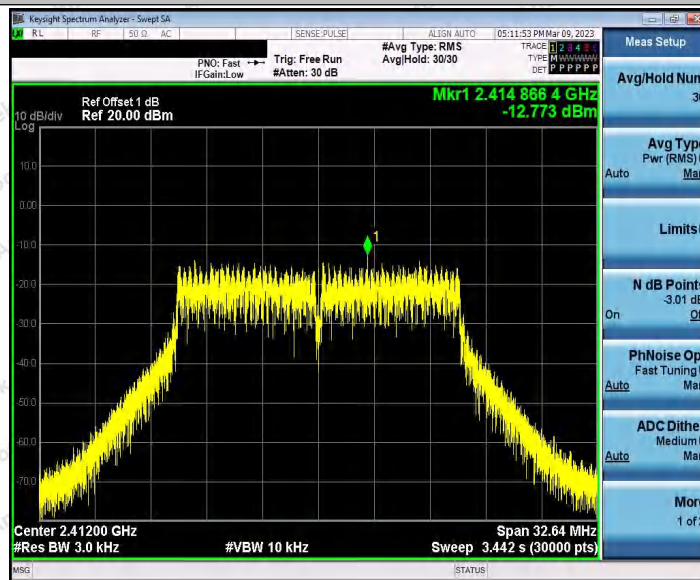


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11G_Ant1_2412



11G_Ant1_2437

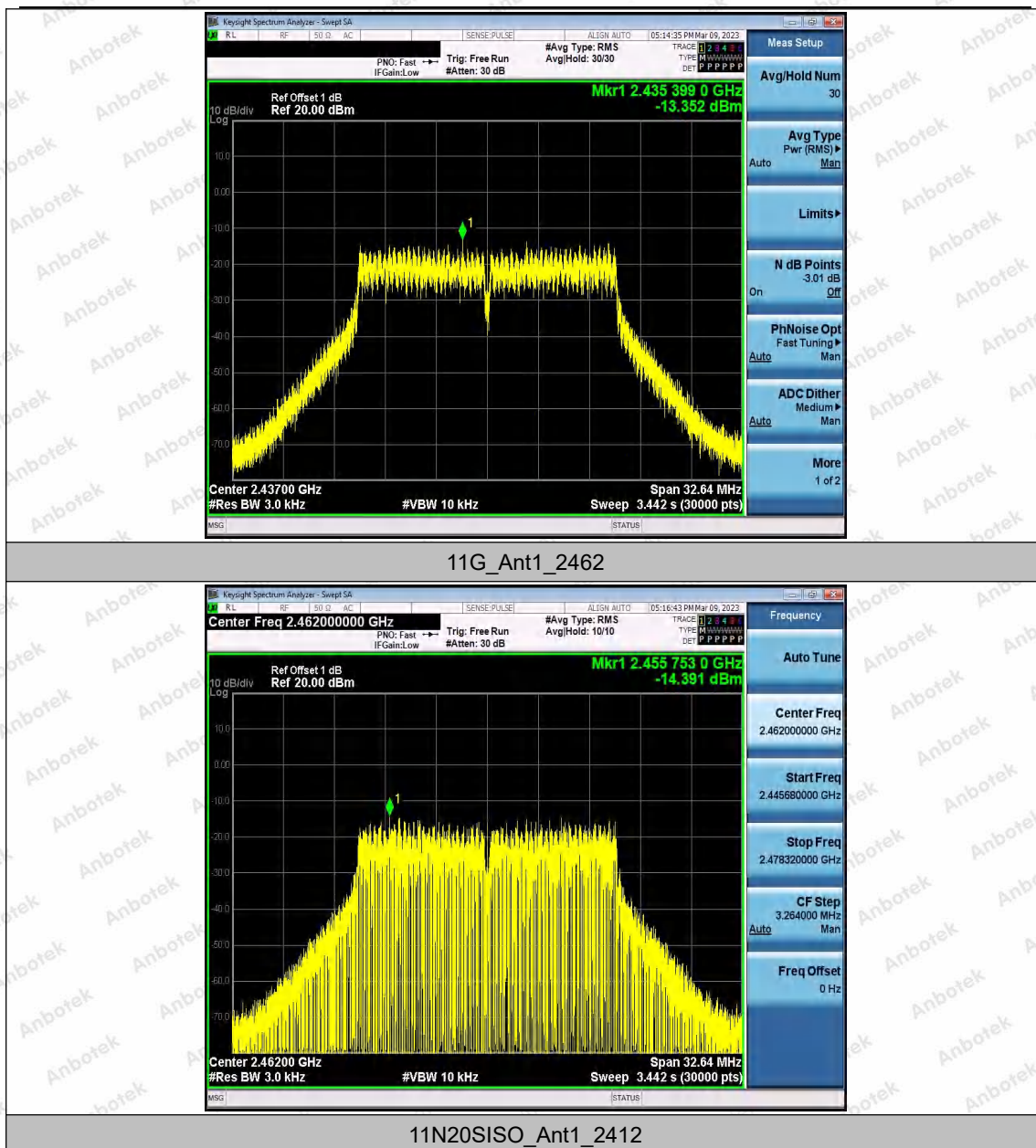
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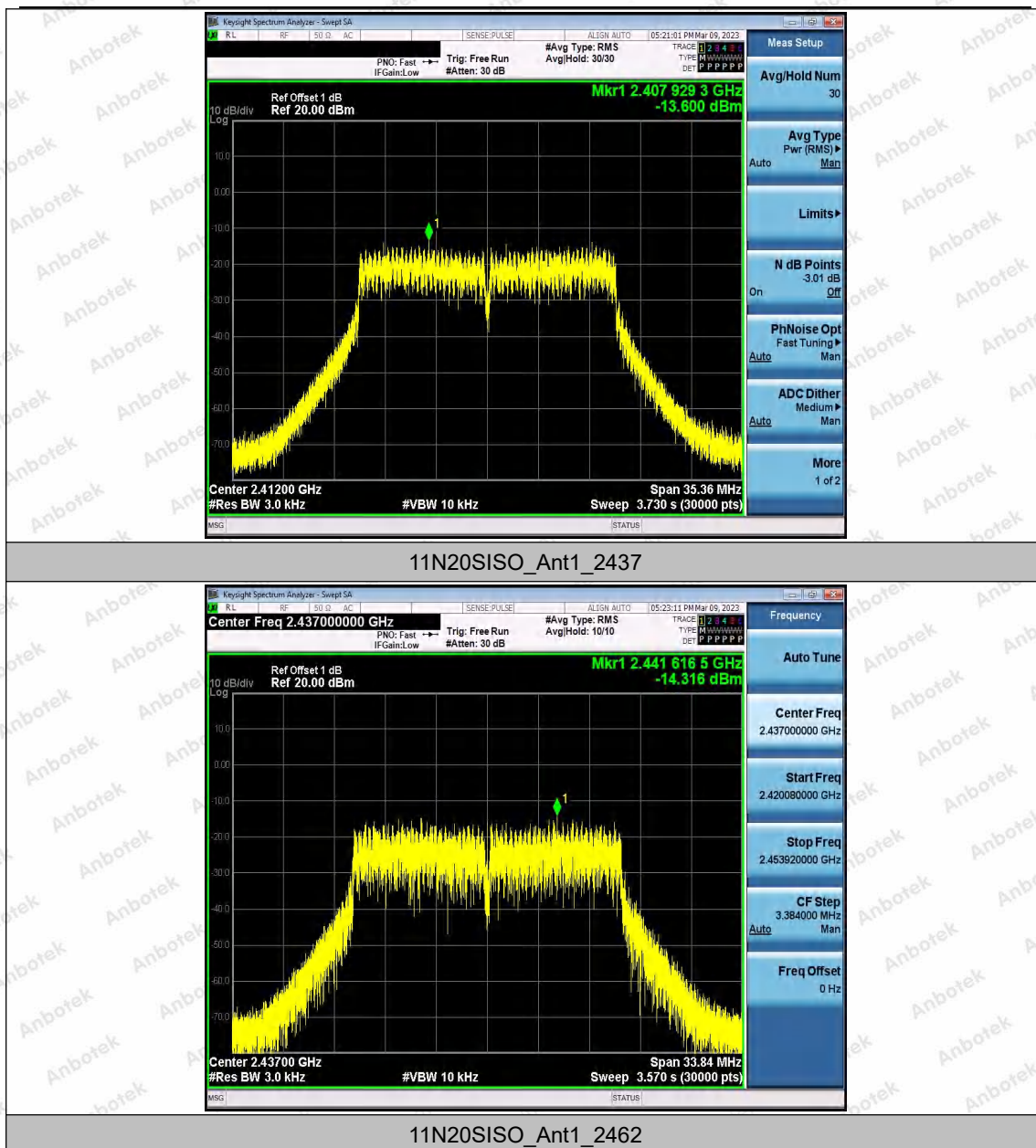
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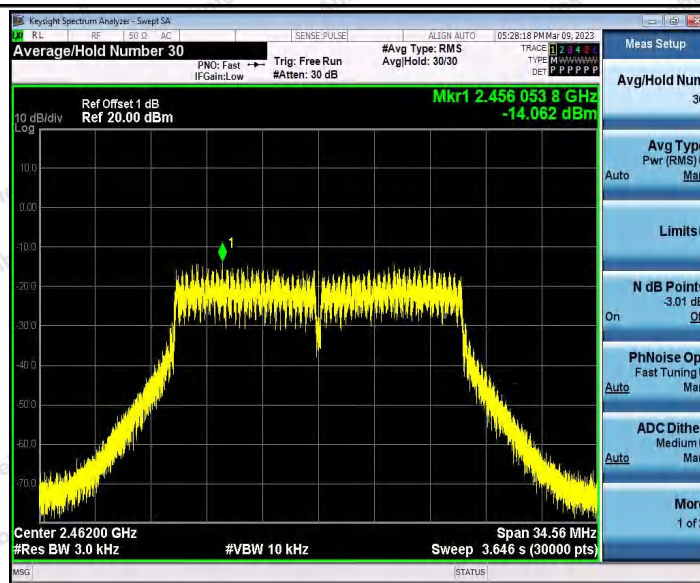


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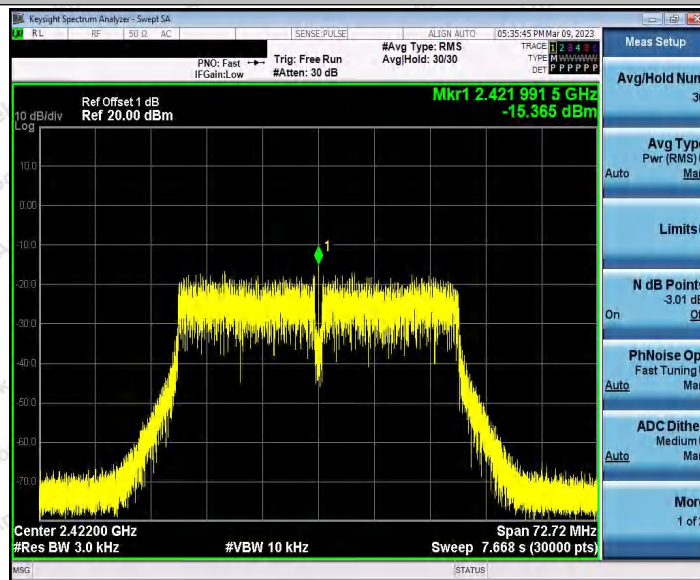
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

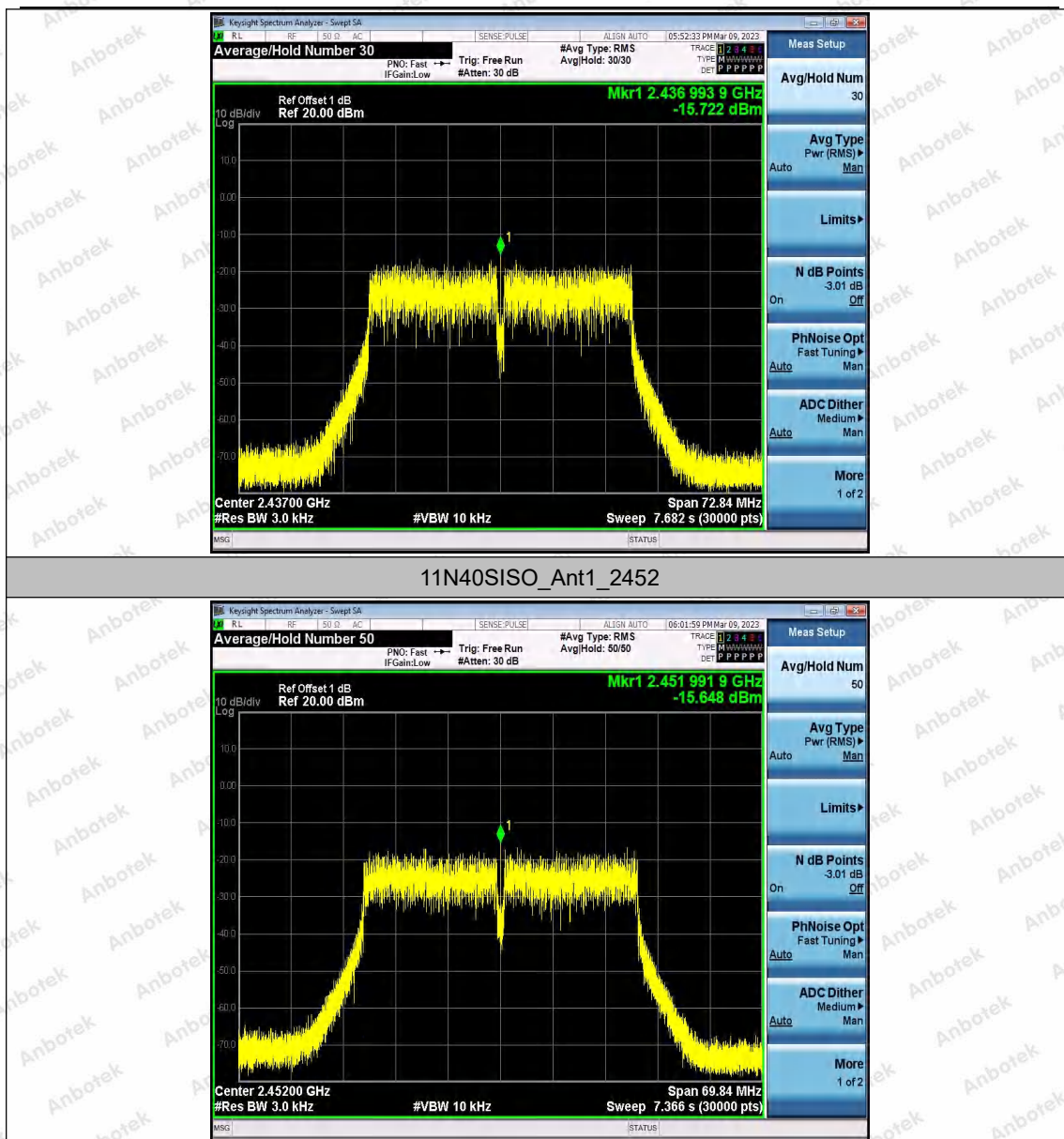
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.47	-36.03	≤-13.53	PASS
		High	2462	5.79	-53.98	≤-14.21	PASS
11G	Ant1	Low	2412	0.80	-38.01	≤-19.2	PASS
		High	2462	0.03	-55.37	≤-19.97	PASS
11N20SISO	Ant1	Low	2412	0.51	-39.61	≤-19.49	PASS
		High	2462	0.24	-54.45	≤-19.76	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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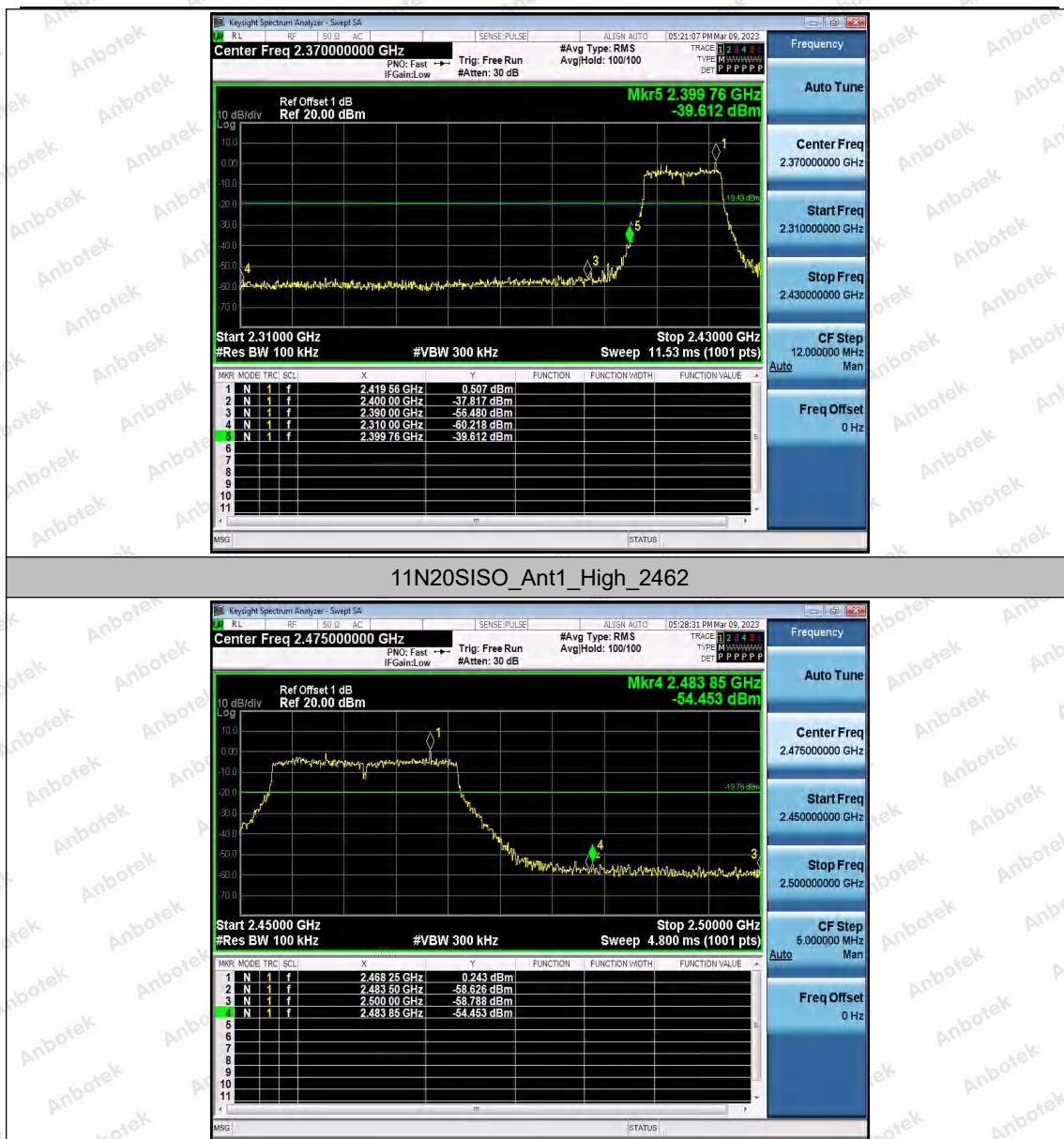


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412





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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.89	4.89	---	PASS
			30~1000	4.89	-65.45	≤-15.11	PASS
			1000~26500	4.89	-53.34	≤-15.11	PASS
		2437	Reference	5.03	5.03	---	PASS
			30~1000	5.03	-66.67	≤-14.97	PASS
			1000~26500	5.03	-53.04	≤-14.97	PASS
		2462	Reference	5.04	5.04	---	PASS
			30~1000	5.04	-65.9	≤-14.96	PASS
			1000~26500	5.04	-53.44	≤-14.96	PASS
11G	Ant1	2412	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-65.53	≤-23.18	PASS
			1000~26500	-3.18	-53.04	≤-23.18	PASS
		2437	Reference	-3.83	-3.83	---	PASS
			30~1000	-3.83	-65.93	≤-23.83	PASS
			1000~26500	-3.83	-53.47	≤-23.83	PASS
		2462	Reference	-3.53	-3.53	---	PASS
			30~1000	-3.53	-64.42	≤-23.53	PASS
			1000~26500	-3.53	-53.58	≤-23.53	PASS
11N20SISO	Ant1	2412	Reference	-1.60	-1.60	---	PASS
			30~1000	-1.60	-66.09	≤-21.6	PASS
			1000~26500	-1.60	-53.43	≤-21.6	PASS
		2437	Reference	-2.37	-2.37	---	PASS
			30~1000	-2.37	-65.93	≤-22.37	PASS
			1000~26500	-2.37	-53.07	≤-22.37	PASS
		2462	Reference	-3.38	-3.38	---	PASS
			30~1000	-3.38	-66.24	≤-23.38	PASS
			1000~26500	-3.38	-51.85	≤-23.38	PASS



Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

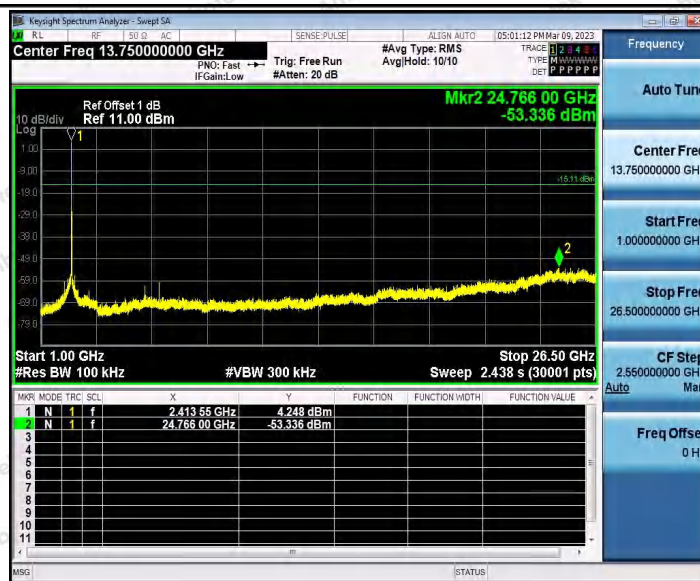
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

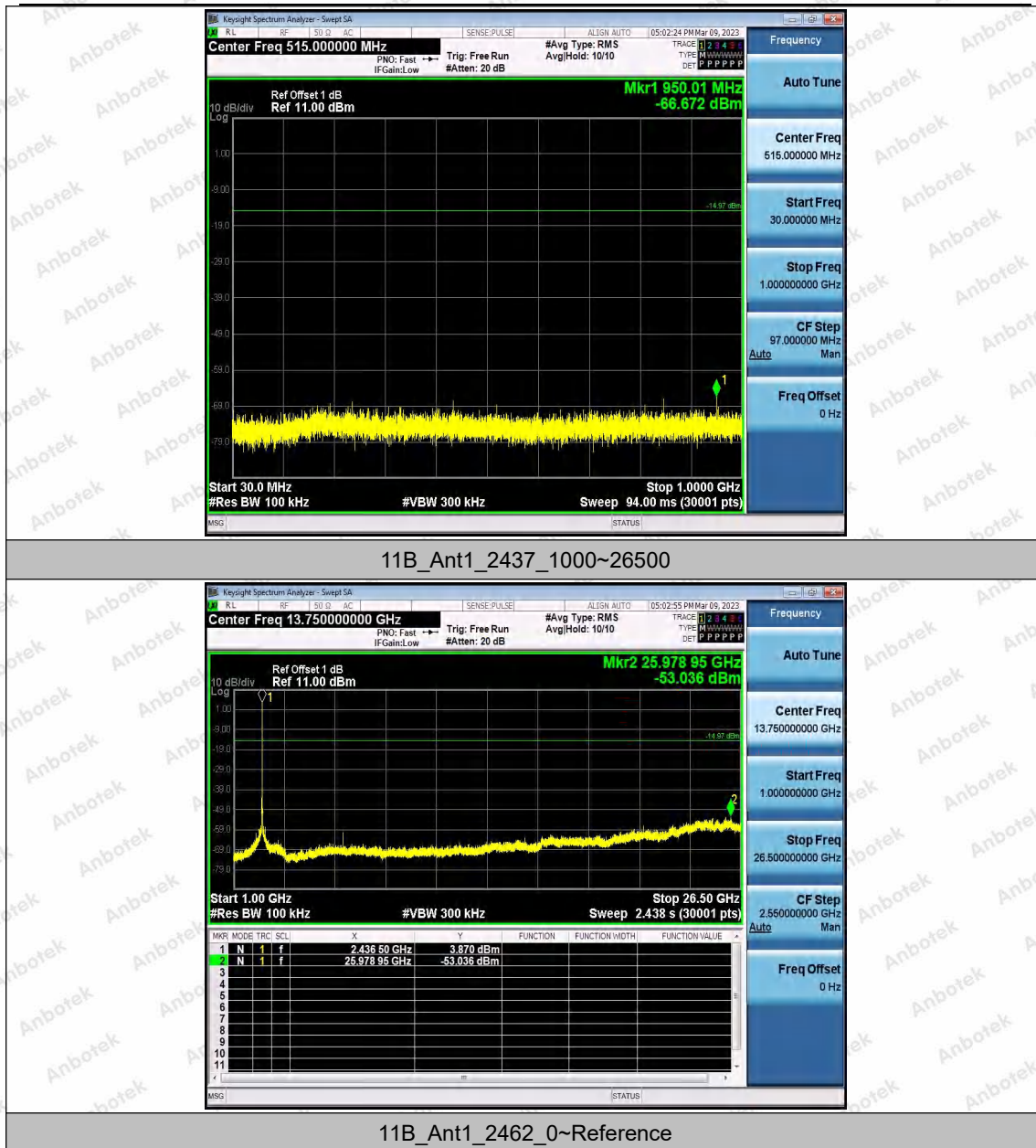
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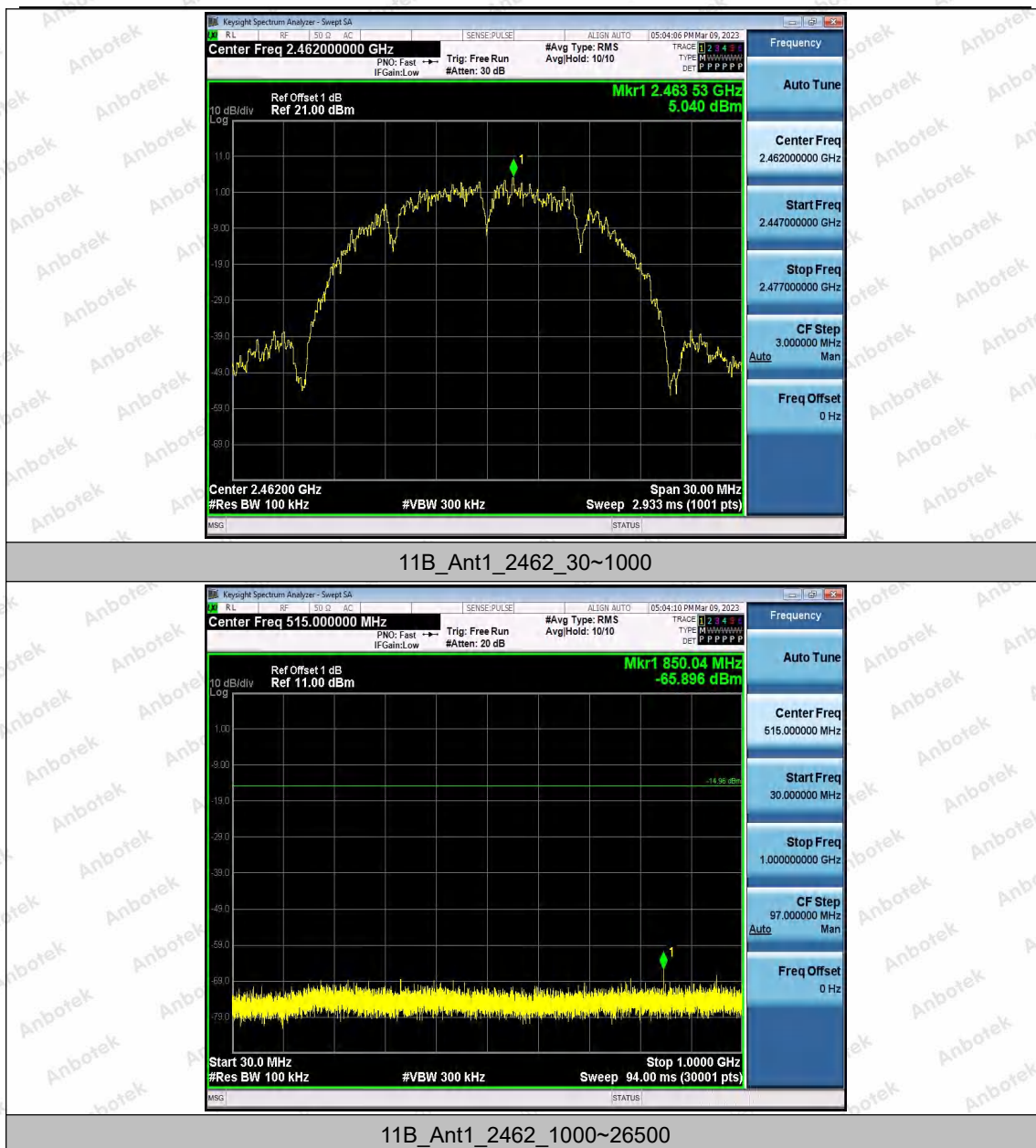
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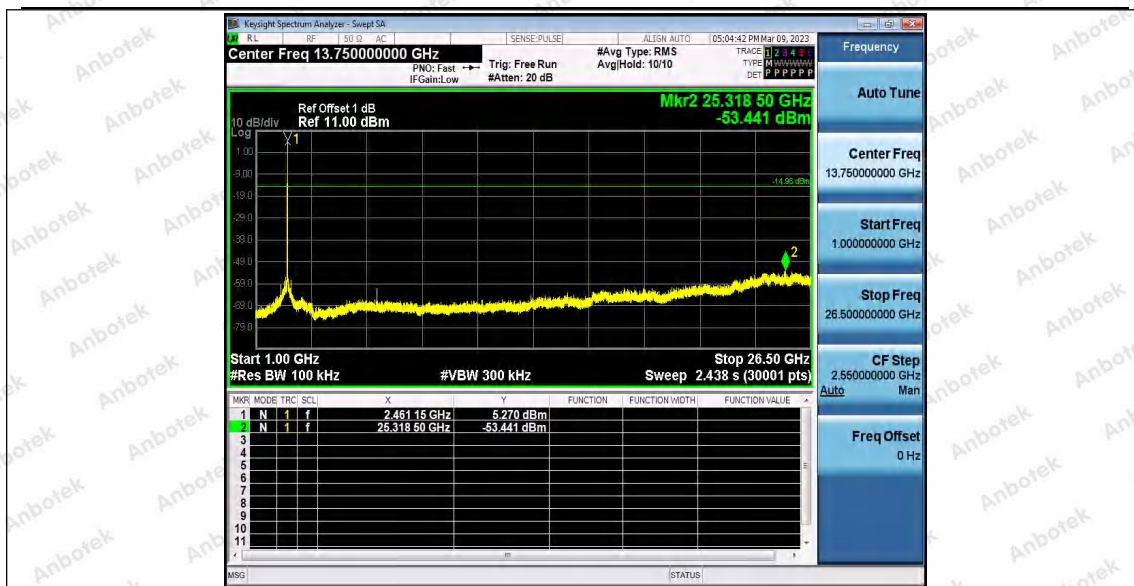
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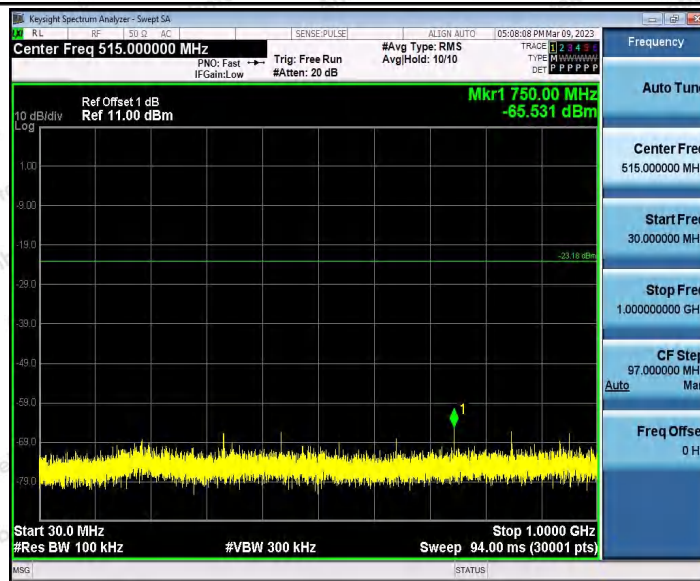


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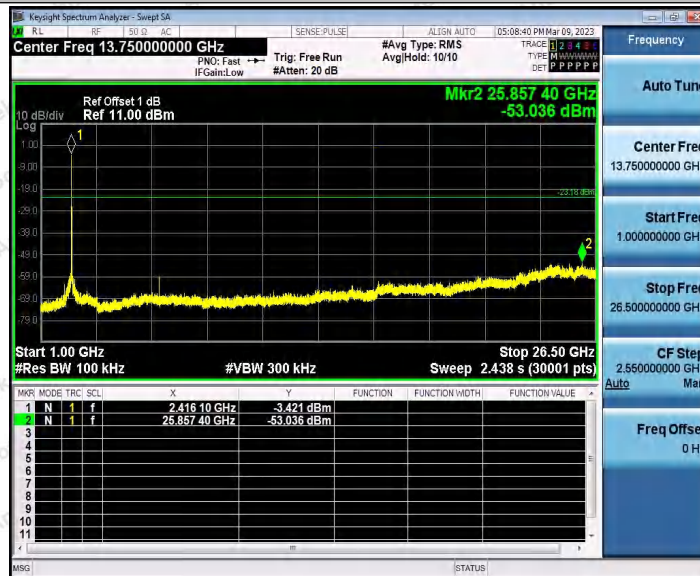


11G_Ant1_2412_30~1000





11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

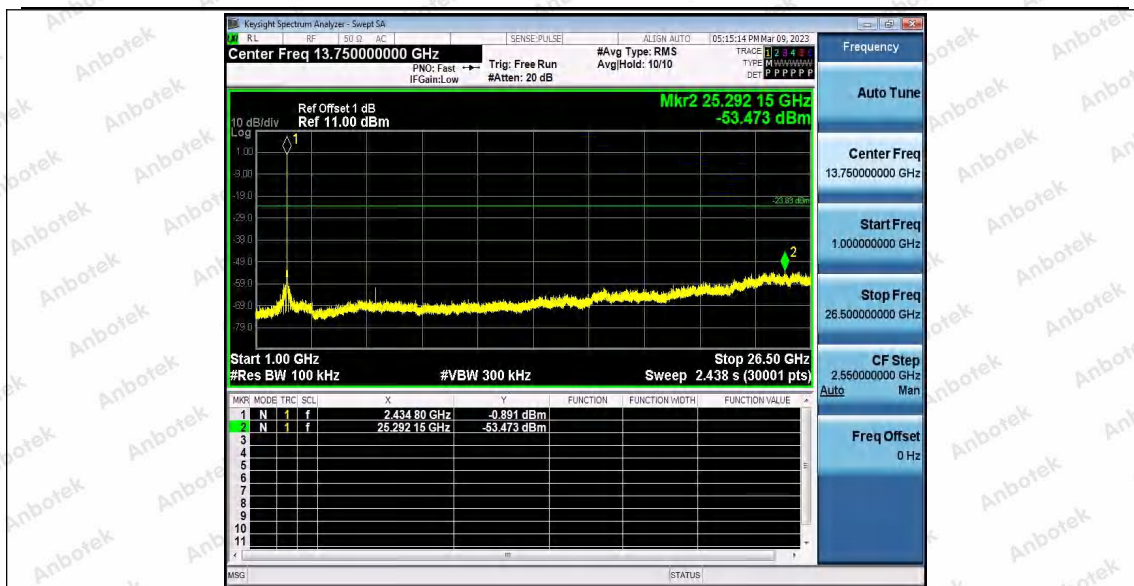
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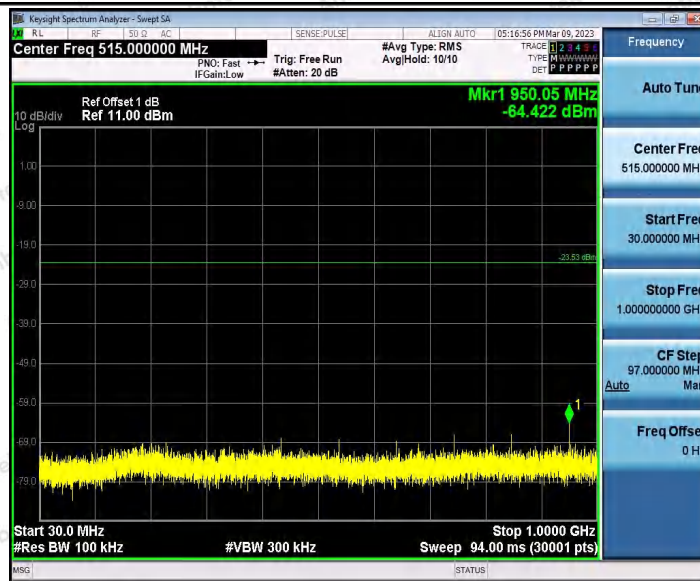


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11G_Ant1_2462_30~1000





11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

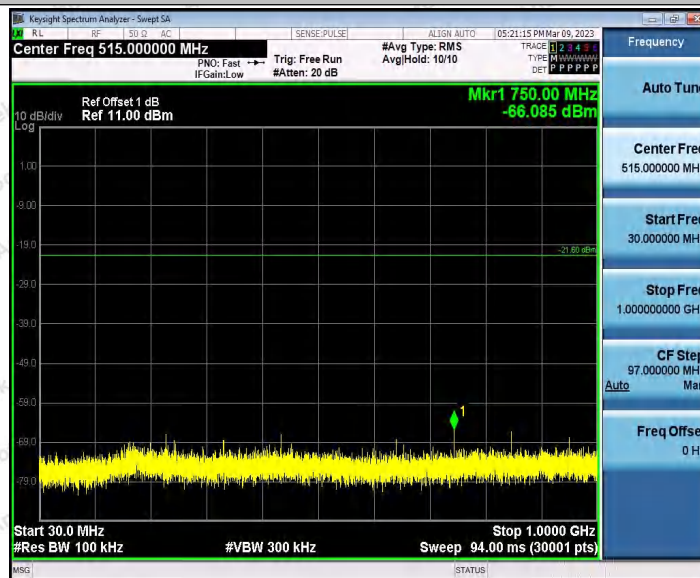
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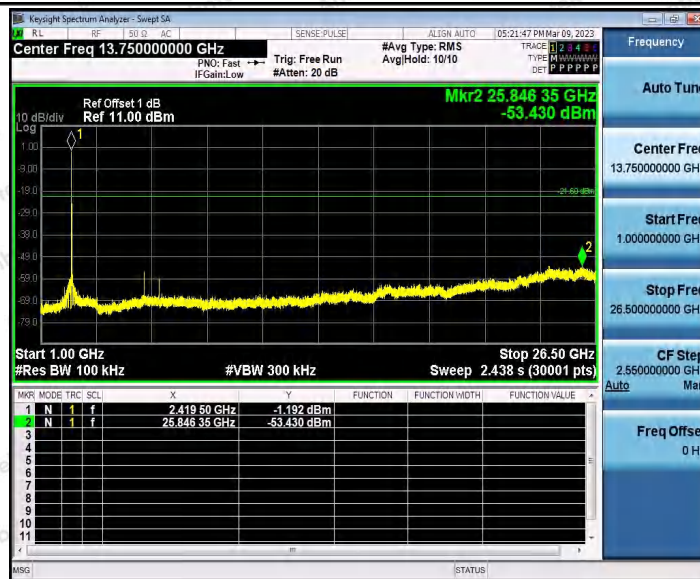
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11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

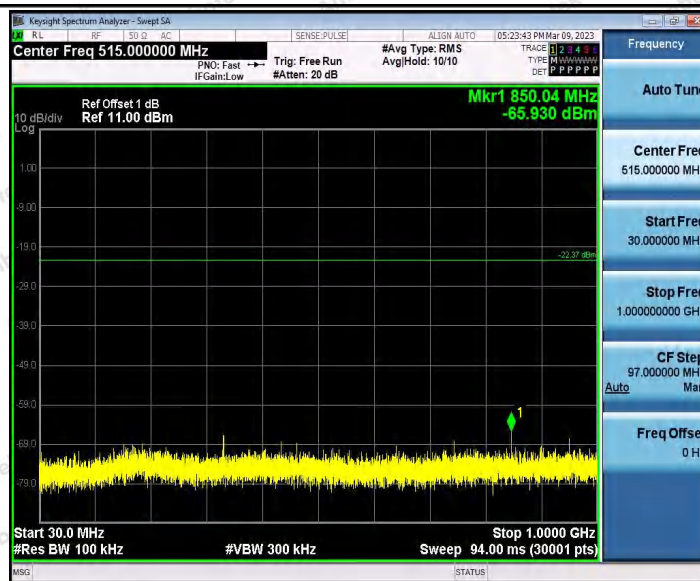
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500

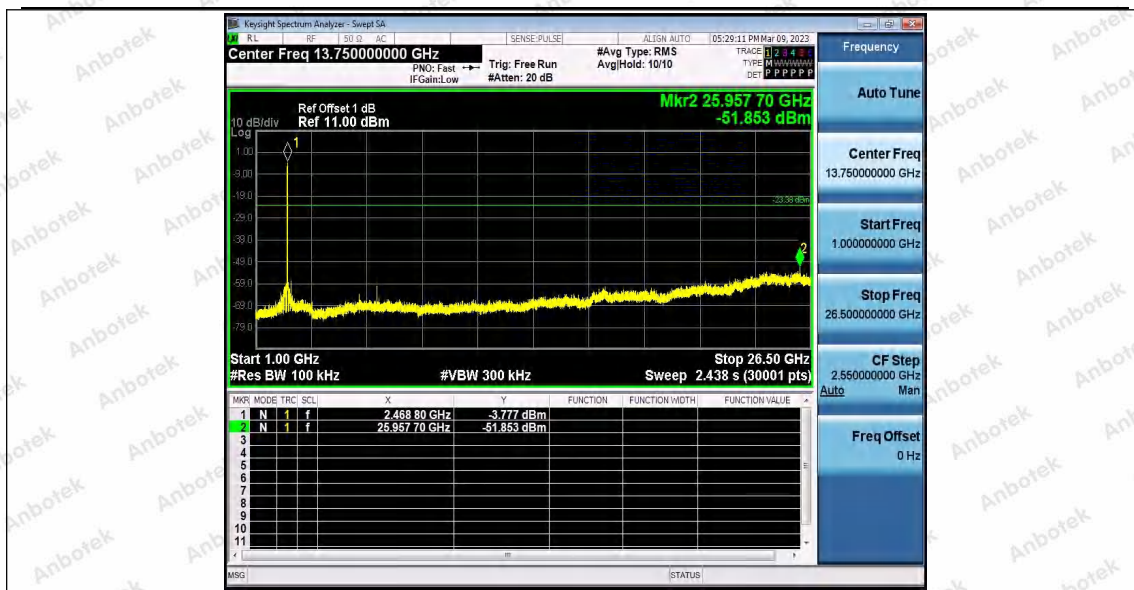
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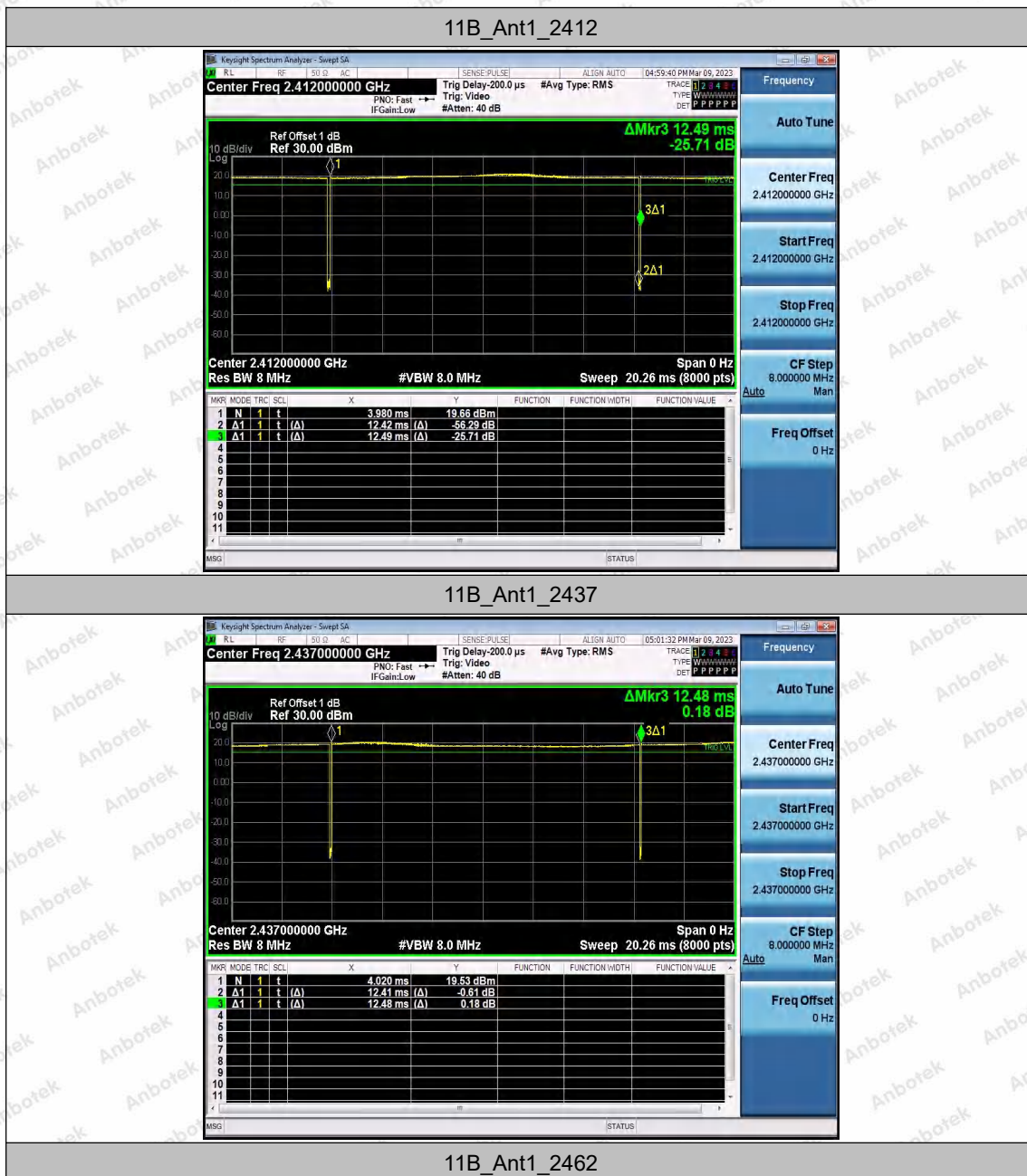
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.49	99.44	0.02
		2437	12.41	12.48	99.44	0.02
		2462	12.42	12.46	99.68	0.01
11G	Ant1	2412	2.06	10.01	20.58	6.87
		2437	2.06	9.98	20.64	6.85
		2462	2.07	10.02	20.66	6.85
11N20SISO	Ant1	2412	1.92	9.98	19.24	7.16
		2437	1.92	9.98	19.24	7.16
		2462	1.92	10.02	19.16	7.18



Test Graphs



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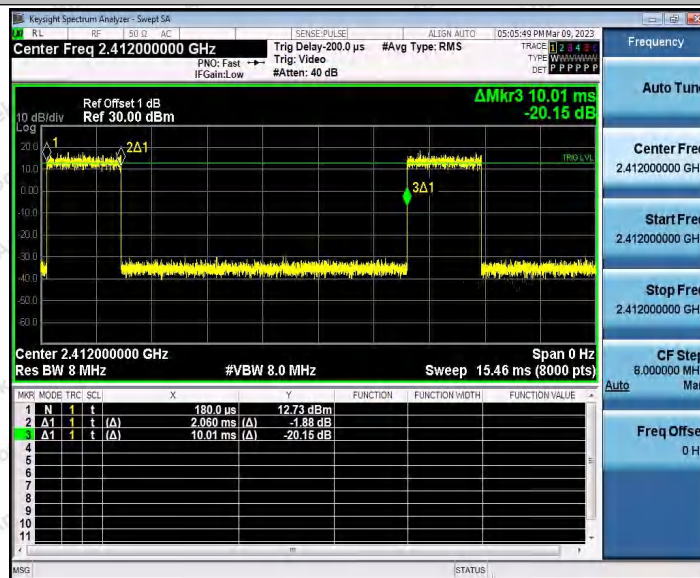


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11G_Ant1_2412



11G_Ant1_2437

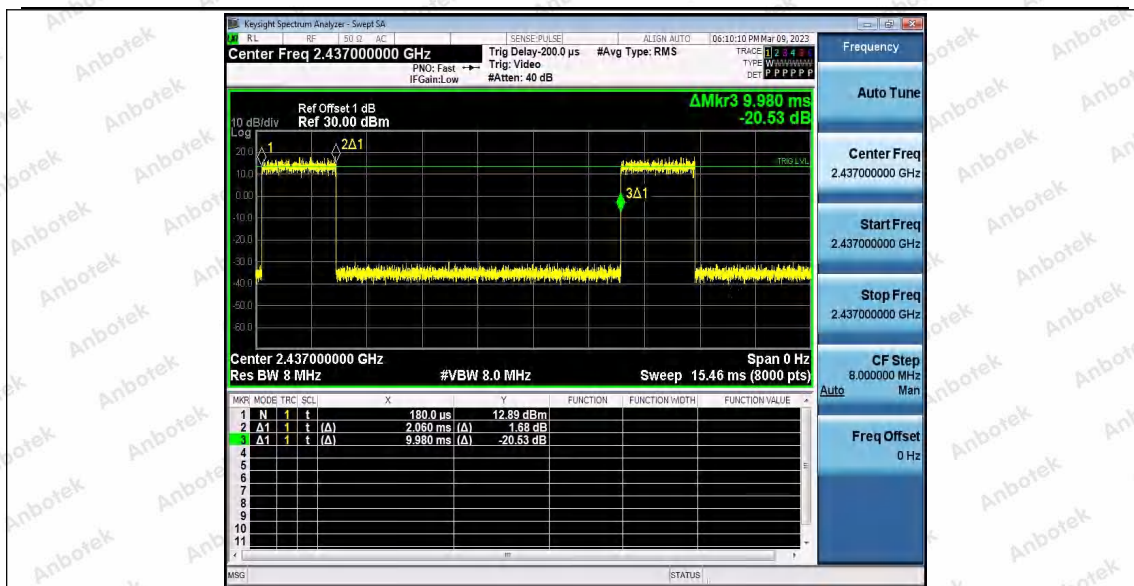
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

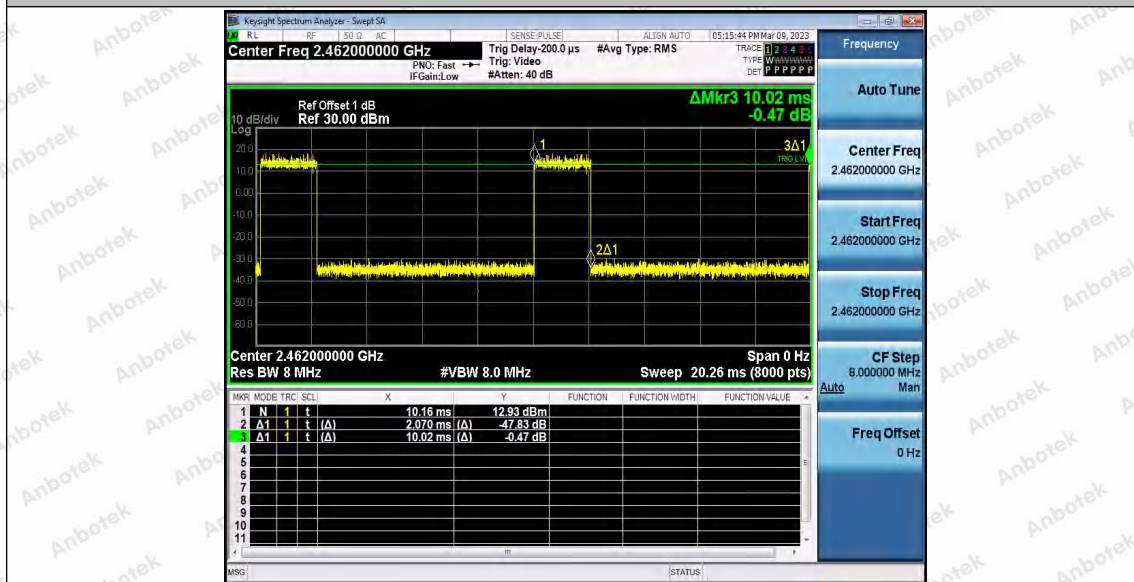


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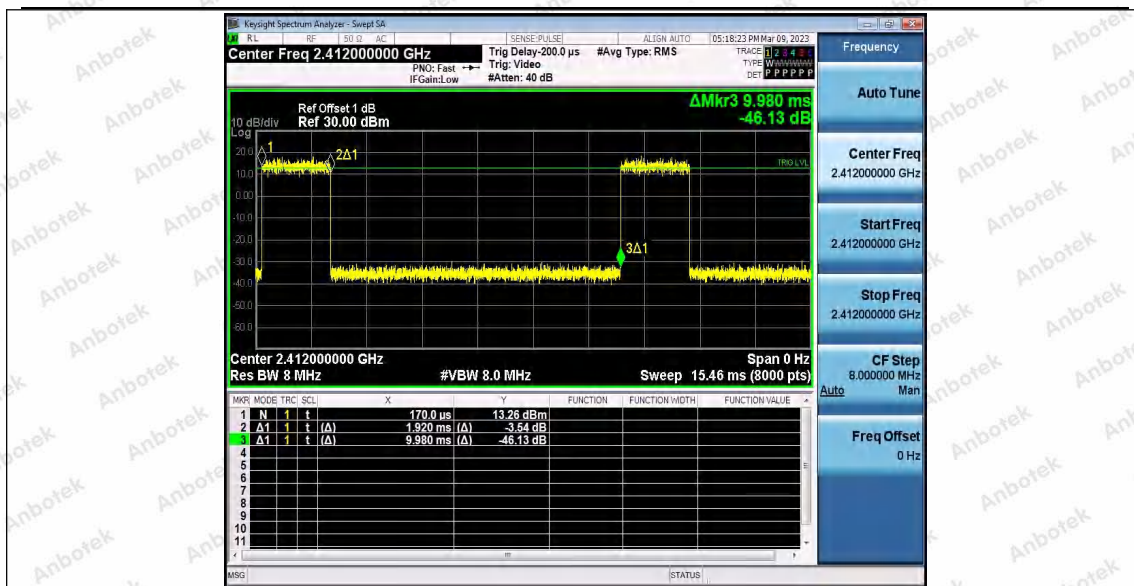


11G_Ant1_2462

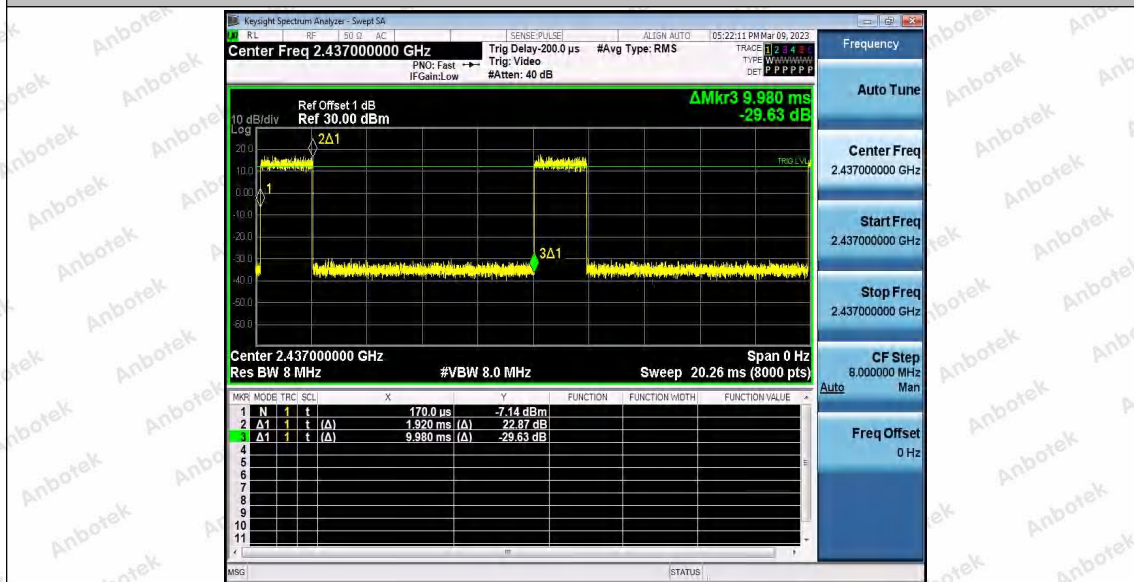


11N20SISO_Ant1_2412



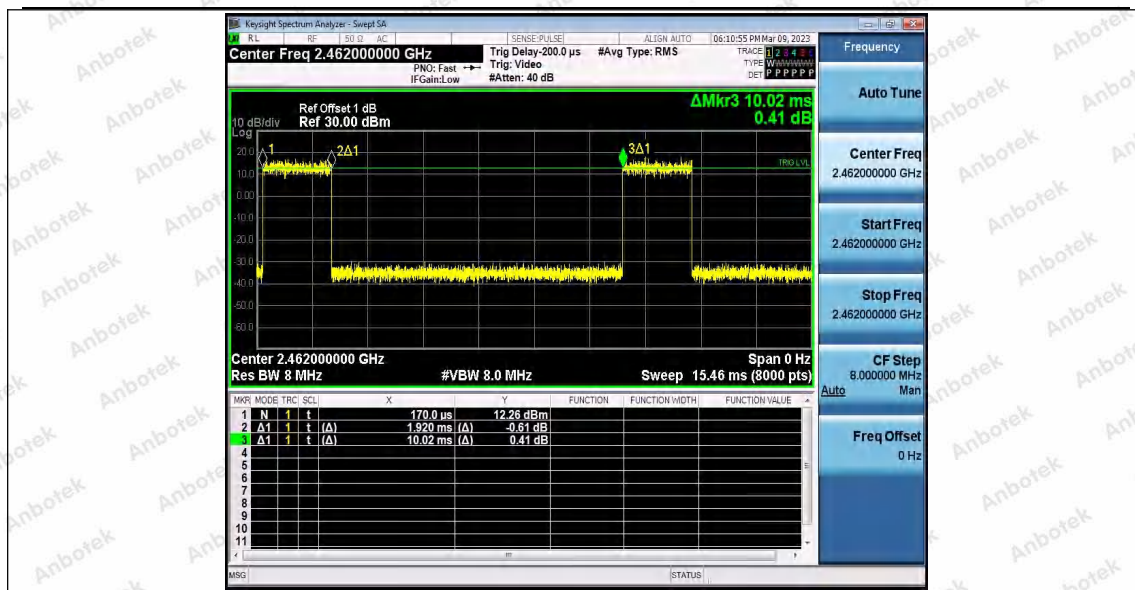


11N20SISO_Ant1_2437



11N20SISO_Ant1_2462





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